



Bebras

***International Challenge
on Informatics and
Computational Thinking***

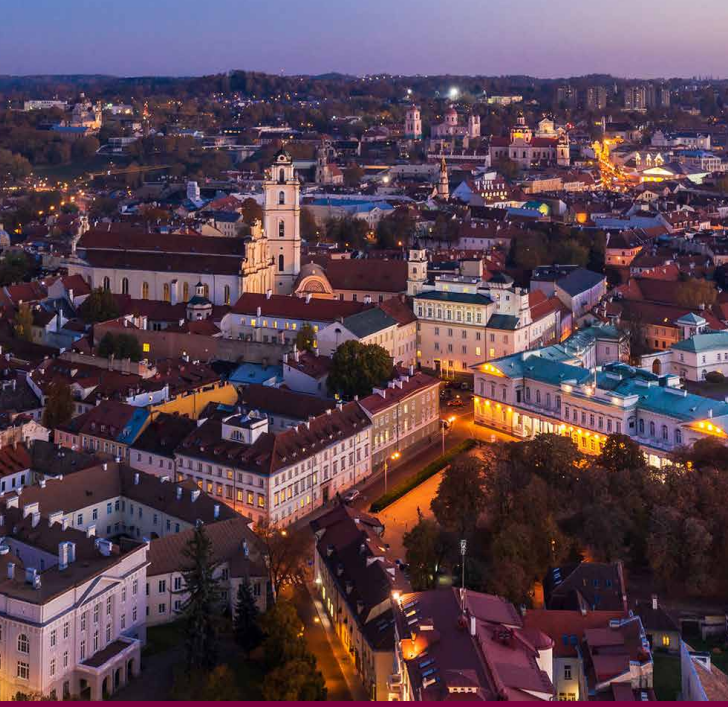
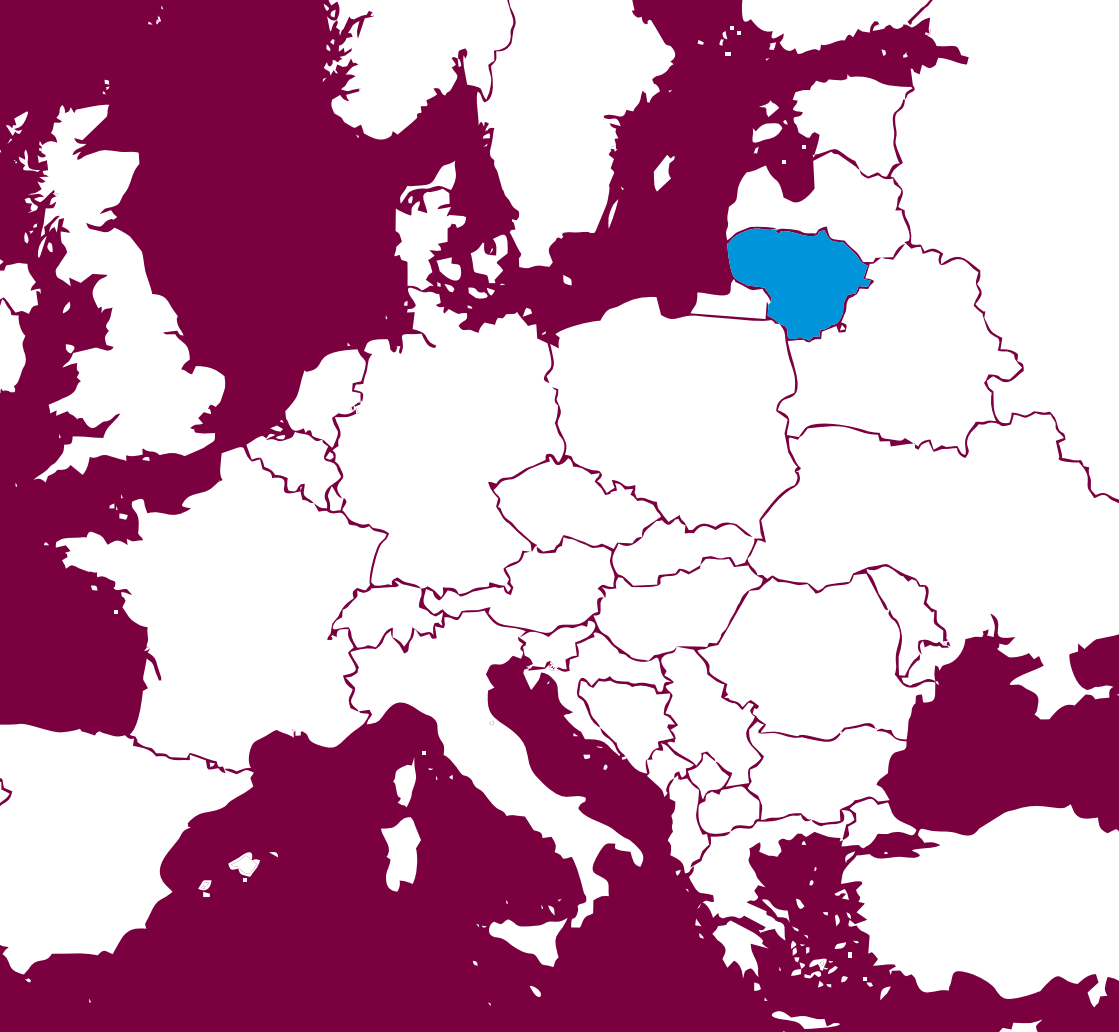


www.bebbras.org

This photo-booklet is presented to you as a thank you for the work put into the Bebras challenge.

For new joiners, it is a present to welcome you to the Bebras movement.





The birth of the Bebras Vilnius, Lithuania

2004



Bebras is an international initiative aiming to promote informatics (computer science, or computing) and computational thinking among school students of all ages. The challenge is organized annually by each participating country locally. Participants are usually supervised by teachers who may integrate the Bebras tasks into their teaching activities. For running the challenge, countries use different technologies mainly based on online management systems. Each country chooses tasks from the Bebras task pool approved by the annually-organized international Bebras task workshop.

The Bebras challenge dates back to 25th September, 2004, when an experimental trial was held in Lithuania, in which 779 school students participated. The 1st international Bebras task workshop was held in 2005 in Pasvalys, Lithuania. Due to covid-19, the 16th and 17th task workshops were held online.



Bebras corner-museum

1st International Bebras Task Workshop Pasvalys, Lithuania

Lithuania
Netherlands
Austria
Estonia
Germany
Latvia
Poland



2005



Estonia
Germany
Latvia
Lithuania
Netherlands
Poland
Austria
Israel

2nd International Bebras Task Workshop Pasvalys, Lithuania



2006



3rd International Bebras Task Workshop Pasvalys, Lithuania

Austria
Estonia
Germany
Latvia
Lithuania
Netherlands
Poland
Israel
Slovakia



2007



Austria
Estonia
Germany
Latvia
Lithuania
Netherlands
Poland
Slovakia
Israel
Ukraine



4th International Bebras Task Workshop Torún, Poland



2008



**5th International
Bebras Task Workshop
Pasvalys, Lithuania**



Austria
Estonia
Germany
Latvia
Lithuania
Netherlands
Poland
Slovakia
Czechia
Israel
Italy
Ukraine



2009



Austria
Estonia
Czechia
Germany
Latvia
Lithuania
Netherlands
Poland
Slovakia
Finland
Israel
Italy
Switzerland
Ukraine

**6th International
Bebras Task Workshop
Dagstuhl, Germany**

2010



7th International Bebras Task Workshop Druskininkai, Lithuania



- Austria
- Czech
- Estonia
- Germany
- Italy
- Latvia
- Lithuania
- Netherlands
- Poland
- Slovakia
- Ukraine
- Canada
- Cyprus
- Finland
- France
- Hungary
- Israel
- Japan
- Slovenia
- Spain
- Switzerland



2011



- Austria
- Czechia
- Estonia
- Germany
- Italy
- Israel
- Latvia
- Lithuania
- Netherlands
- Poland
- Slovakia
- Ukraine
- Belgium
- Bulgaria
- Canada
- Cyprus
- Finland
- France
- Hungary
- Ireland
- Japan
- Russia
- Slovenia
- Spain
- Sweden
- Switzerland
- Taiwan

8th International Bebras Task Workshop Druskininkai, Lithuania



2012



9th International Bebras Task Workshop Torún, Poland



2013



Austria
Czechia
Estonia
Germany
Israel
Italy
Latvia
Lithuania
Netherlands
Poland
Slovakia
Switzerland
Ukraine
Belgium
Bulgaria
Canada
Cyprus
Egypt
Finland
France
Hungary
Ireland
Japan
New Zealand
Russia
Serbia
Slovenia
Spain
Sweden
Taiwan

Austria
Canada
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Switzerland
Ukraine
Australia
Belgium
Bulgaria
Cyprus
Egypt
Ireland
New Zealand
Russia
Serbia
South Africa
Spain
Sweden
Taiwan
United Kingdom

10th International Bebras Task Workshop Vilnius and Druskininkai, Lithuania



In 2014, BEBRAS received the WITSA Merit Award from the World Information Technology and Services Alliance for its collaborative international network to promote informatics among primary, secondary and high school students and teachers; for attracting school age children, especially girls to science and technology, and engaging them in computer sciences, engineering and mathematics.

2014



11th International Bebras Task Workshop St. Pölten, Austria

2015



- Austria
- Belgium
- Canada
- Czechia
- Estonia
- Finland
- France
- Germany
- Hungary
- Israel
- Italy
- Japan
- Latvia
- Lithuania
- Netherlands
- Poland
- Russia
- Slovakia
- Slovenia
- Switzerland
- Taiwan
- Ukraine
- Australia
- Azerbaijan
- Bulgaria
- Cyprus
- Egypt
- Iceland
- Iran
- Kazakhstan
- Macedonia
- Malaysia
- New Zealand
- Pakistan
- Serbia
- South Africa
- Spain
- Sweden
- Turkey
- United Kingdom
- USA



The winner of the Informatics Europe 2015 Best Practices in Education Award is the Bebras "International Challenge on Informatics and Computational Thinking".



The Award organised annually by Informatics Europe was presented at a special ceremony held in Vienna, Austria, during the European Computer Science Summit.

12th International Bebras Task Workshop Bodrum, Turkey



- Austria
- Azerbaijan
- Belgium
- Bulgaria
- Canada
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- Hungary
- Iceland
- Iran
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- South Africa
- Spain
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- Taiwan
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- Ukraine
- United Kingdom
- USA
- Australia
- Belarus
- Bosnia and Herzegovina
- Croatia
- Egypt
- Indonesia
- Ireland
- Kazakhstan
- Latvia
- Romania
- Serbia
- Singapore
- South Korea
- Vietnam



2016



Number of participants in 2016 (more than 1 650 597 participants from 45 countries).

France	474901	Austria	21191	Malaysia	4875
Germany	290802	Turkey	19951	Estonia	4095
Ukraine	98766	Macedonia	18126	Japan	4080
UK	81658	Hungary	18046	Kazakhstan	2995
Czechia	71792	Poland	15863	Belgium	2023
Belarus	70753	Switzerland	12665	Iceland	1780
Slovakia	62981	Vietnam	12000	Indonesia	1553
Taiwan	60744	Canada	11732	Ireland	1129
USA	51782	Romania	11222	Cyprus	713
Serbia	35554	Sweden	9396	South Korea	672
Lithuania	33006	Pakistan	8488	Spain	671
Slovenia	29083	Latvia	7510	Bulgaria	431
Italy	28368	Finland	5827	New Zealand	315
Russia	27298	Croatia	5624	Singapore	254
Netherlands	24476	Azerbaijan	5153	Israel	250

13th International Bebras Task Workshop Brescia, Italy



2017

In memoriam
Ries Kock



- Australia
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- Malta
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- Nigeria
- Portugal
- Tunisia
- Vietnam



14th International Bebras Task Workshop Protaras, Cyprus



2018



Australia
Austria
Azerbaijan
Belarus
Belgium
Bosnia and Herzegovina
Bulgaria
Canada
Cyprus
Croatia
Czechia
Egypt
Estonia
Finland
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Taiwan
Turkey

Ukraine
United Kingdom
USA
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Dominican Republic
El Salvador
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Hong Kong
Israel
Jordan
Kazakhstan
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Portugal
Thailand
Tunisia
Vietnam



Previous Bebras tasks can be found on many countries' websites as Bebras brochures.



15th International Bebras Task Workshop Balatonkenese, Hungary



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- Norway
- Palestine
- Philippines
- Portugal
- Saudi Arabia
- Syria
- Tunisia
- Uruguay
- Uzbekistan

2019





16th International
Bebras Task Workshop (Virtual)
Daejeon, South Korea

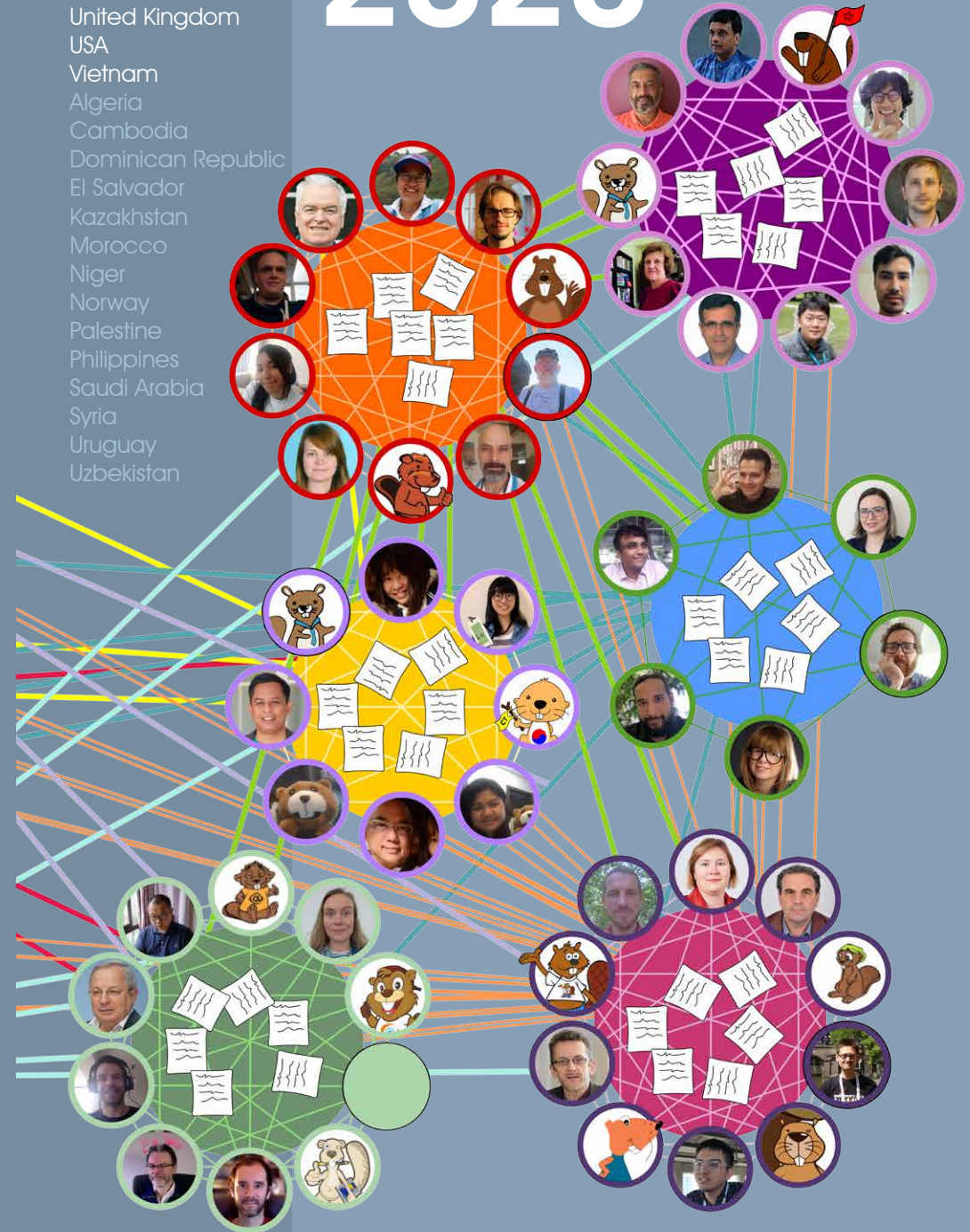


Collage of Susanne Datzko, Switzerland

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- Syria
- Uruguay
- Uzbekistan

2020



17th International Bebras Task Workshop (Virtual) Druskininkai, Lithuania

2021



In memoriam
Peter Tomcsányi

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- Uruguay
- Uzbekistan

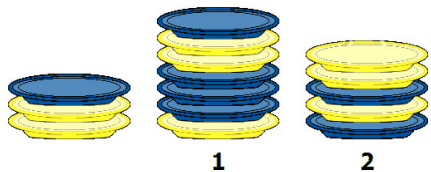
Participation of students 2020-2021

Algeria 16 184	32 107 Lithuania
Australia 54 920	18 245 Netherlands
Austria 19 741	2 614 New Zealand
Belarus 166 038	19 263 Macedonia
Belgium 3 369	3 336 Pakistan
Bosnia and Herzegovina 5 167	
Bulgaria 244	213 Philippines
Canada 15 462	10 074 Poland
China 39 869	17 496 Portugal
Cyprus 1 085	7 194 Romania
Croatia 36 491	8 756 Russia
Czechia 61 788	6 527 Saudi Arabia
Egypt 2 300	28 187 Serbia
Estonia 3 354	55 064 Slovakia
Finland 4 307	18 955 Slovenia
France 523 598	63 897 South Korea
Germany 381 580	30 994 Switzerland
Hungary 29 341	159 039 Taiwan
Iceland 2 504	14 776 Thailand
India 103 114	40 431 Turkey
Indonesia 16 186	49 317 Ukraine
Iran 5 371	240 803 United Kingdom
Ireland 9 533	3 593 Uruguay
Italy 14 519	47 470 USA
Japan 4 554	26 335 Uzbekistan
Latvia 14 896	24 787 Vietnam

Plates

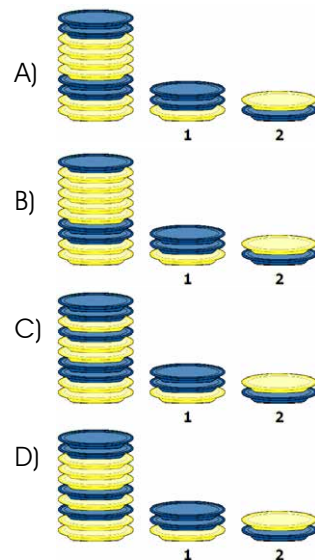
A one-handed robot can take one plate from the leftmost pile of plates and place it either to pile number 1 or pile number 2. We can program the robot by a sequence consisting of numbers 1 and 2 only. Each number says to which pile the plate should be put.

The robot just now finished executing the following program:
2 1 2 1 1 2 1
and the piles look like this:



Peter Tomcsányi and Monika Tomcsányiová, Slovakia

How did the piles look like before the program has started?



Total participants
2 464 988

Welcome to Bebras workshop 2021 in Lithuania!



Sayah Karima	John-Paul Pretti	Mathias Hiron
Sarah Atkins	Troy Vasiga	Marielle Léonard
Graeme Buckie	Yong Mao	Wolfgang Pohl
Ruwan Devasurendra	Fei Shang	Michael Weigend
Michael Page	Jinbao Zhang	Yogev Shani
Hannah Piper	Thomas Ioannou	Doron Zohar
Wilfried Baumann	Nikolaos Stratis	Christian Datzko
Gerald Futschek	Ariel Torres Saavedra	Bence Gaál
Thomas Galler	Francisco Jose Correa Zabala	Ágnes Erdősne Németh
Benjamin Hirsch	Darija Dasović	Zsuzsa Pluhár
Martin Kandlhofer	Lidija Kralj	Linda Björk
Martina Sengstschmied	Tomás Orlando Junco Vázquez	Bergsveinsdóttir
Florentina Voboril	Ramón Morales Alvarez	Arnheiður Guðmundsdóttir
Aliaksei Tolstikau	Jiří Vaníček	Serene Gallegos
Iryna Kirynovich	Eslam Mohamed Wageed	Madhavan Mukund
Sébastien Combéfis	Alfonso Abraham Alvarenga Gamero	Vipul Shah
Kris Coolsaet	Rodrigo Santamaria	Anupama Sivakumar
Haris Gavranović	Humberto Alfonso Sermeño Villalta	Husnul Hakim
Estela Ramić	Lidia Feklistova	Inggriani Liem
Emil Kelevedjiev	Ahto Truu	Hamed Mohebbi
Mony Chanroath	Heikki Hyyrö	Mehdi Amiri
Sarah Chan		Sharareh Khanahmadi
		Taina Lehtimäki

Tom Naughton	Juan Gutiérrez	Andrej Brodnik
Violetta Lonati	Vernon Gutierrez	Špela Cerar
Mattia Monga	Anna Patricia Miravite	Chanelle Booysen
Anna Morpurgo	Ezra Templonuevo	Pieter Waker
Marvin Hall	Rechilda Perez Villame	Javier Bilbao
Seiichi Tani	Marta Jadwiga Burzańska	Eugenio Bravo
Unyeol Jung	Maciej Marek Sysło	Arnold Neville Pears
Dong Yoon Kim	Pedro Marcelino	Jonatan Pipping
Yongju Jeon	Pedro Ribeiro	Meike Akveld
Phoukhaoka Sackloklam	João Rico	Susanne Datzko
Souliya Sayasinh	Raluca Constantinescu	Nora Anna Escherle
Chaleunsouk Sisouvong	Anton Chukhnov	Lucio Negrini
Mija Zajūksne	Sergei Nikolaevitch Pozdniakov	Jean-Philippe Pellet
Daumilas Ardickas	Sultan Saud Albarakati	Jia-Ling Koh
Valentina Dagienė	Esraa Majhad Almajhad	Greg Lee
Karolis Jasutis	Maja Zoran Andonović-Radojević	Judith Lin
Vaidotas Kinčius	Saša Milisav Jevtić	Bundit Thanasopon
Vaida Masiulionytė-Dagienė	Milan Miladin Rajković	Yasemin Gülbahar
Bronius Skūpas	Soong Chee Gi	Filiz Kalelioğlu
Gabrielė Stupurienė	Sophie Koh	Rostyslav Shpakovych
Tomas Šiaulyš	Henry Ong	Andrew Csizmadia
Lina Vinikienė	Mothanna Alkubeyly	Chris Roffey
Mile Jovanov	Ghaffar Daher	Margarita Flores-Sicich
Anis Shahira Binti Hadis	Mayad Farhoud	Eljakim Schrijvers
Diao Alhak El Fallous	Abd Al-Rahman Hourani	Washington Chocho
Alieke Stijf	Bashar Hussain	Víctor Koleszar
Willem van der Vegt	Somar Mohammad	Emiliano Pereiro
Margot Phillipps	Saleh Rabea	Alar Urruticoechea
Ibrahim Abdoulahi	Humam Tlay	Alisher Ikramov
Benjamin Raybaud	Alhadi Zidan	Luân Văn Vũ
Marios Omar Choudary	Andrej Blaho	Quan Quang Lê
Samed F Alhajjala	Lucia Budinská	Vinh Anh Lê
Mousa Alrefaya		

Bebras logos



Algeria



BEBRAS
Australia



Austria



Latvia



Lithuania



Macedonia



Malaysia



Morocco



Azerbaijan



Belarus



Belgium



Bosnia and
Herzegovina



Bulgaria



New Zealand



Niger



Norway



Pakistan



Palestine



Cambodia



Canada



China



Cyprus



Croatia



Philippines



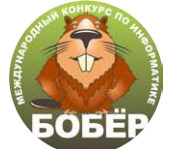
Poland



Portugal



Romania



Russia



Cuba



Czechia



Dominican
Republic



BEAVER EGYPT
Egypt



El Salvador



Serbia



Singapore



Syria



Slovakia



Slovenia



Estonia



Finland



France



Germany



Hungary



South Africa



South Korea



Spain



Sweden



Switzerland



Iceland



India



Indonesia



Iran



Ireland



Taiwan



Thailand



Netherlands



Turkey



Ukraine



Italy



Japan



Kazakhstan



Kingdom of
Saudi-Arabia



Laos



United Kingdom



Uruguay



USA



Uzbekistan



Vietnam

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Valentina Dagienė

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Zsuzsa Pluhár

Wolfgang Pohl

Maciej M. Sysło

Ahto Truu

Jiří Vaníček

Lina Vinikienė

May 2021

BMK



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**Vilnius
University**